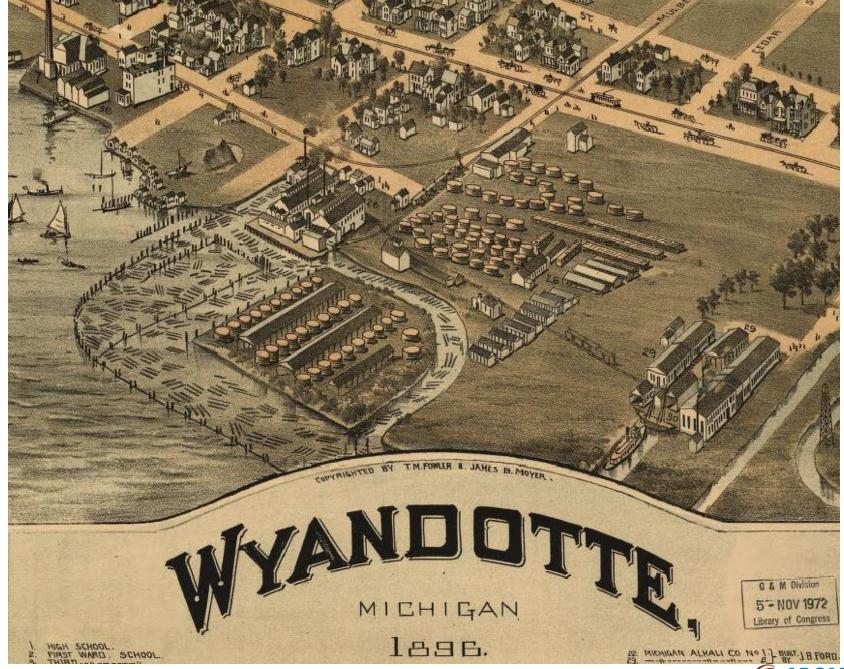
Outline

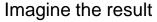
- Summary
- History of area
- Pre-investigation status
- CMS investigation results
- Next steps

Southern Boundary Conceptual Site Model (CSM) updates:

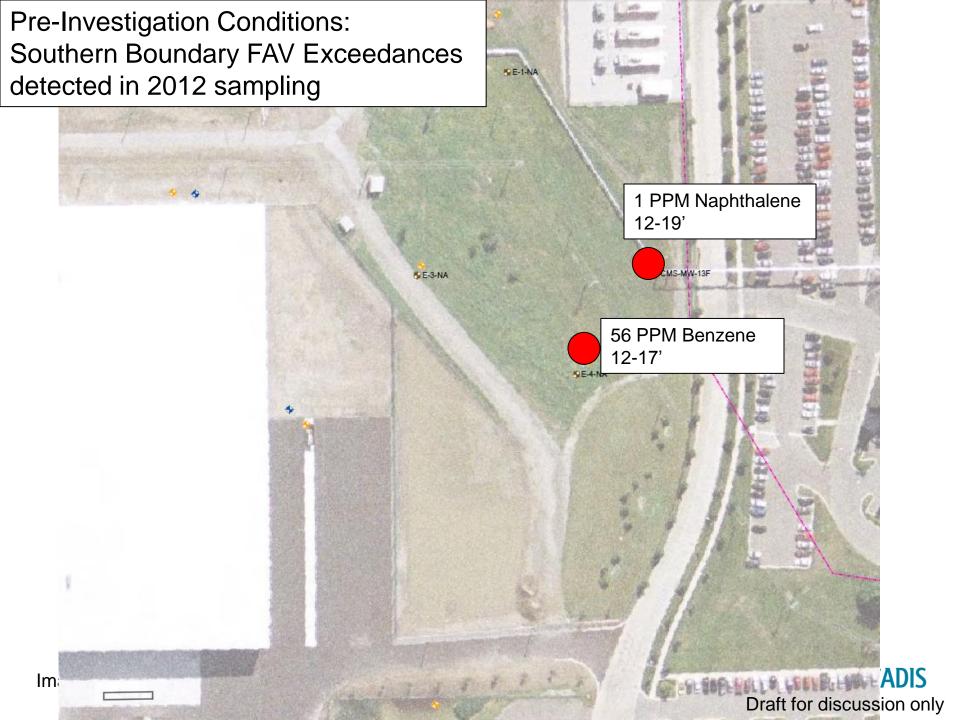
Pre-Investigation	Post-Investigation
VOCs > FAV near property boundary	VOCs > FAV at property boundary
Benzene > 50 PPM present at single location	Benzene at 10s-100s PPM present across >100' section at property boundary
Some organic material present due to naturally occurring peat layer	"Significant" organic material present due to both peat layer and wood from historical uses in the 1800s



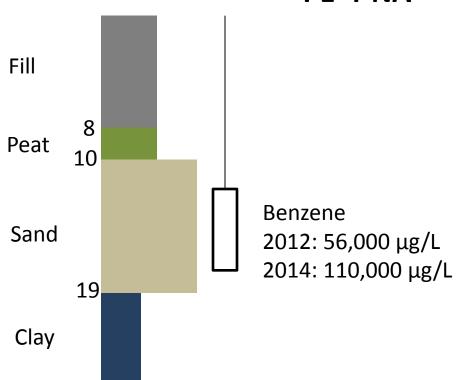


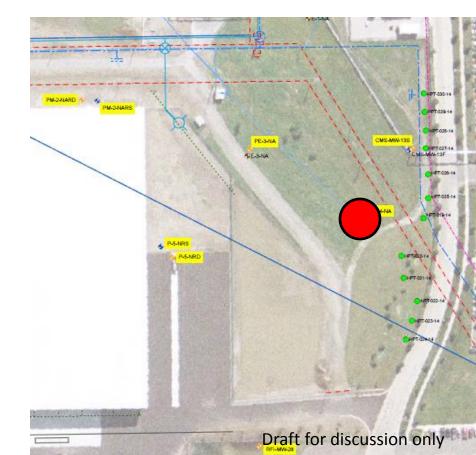


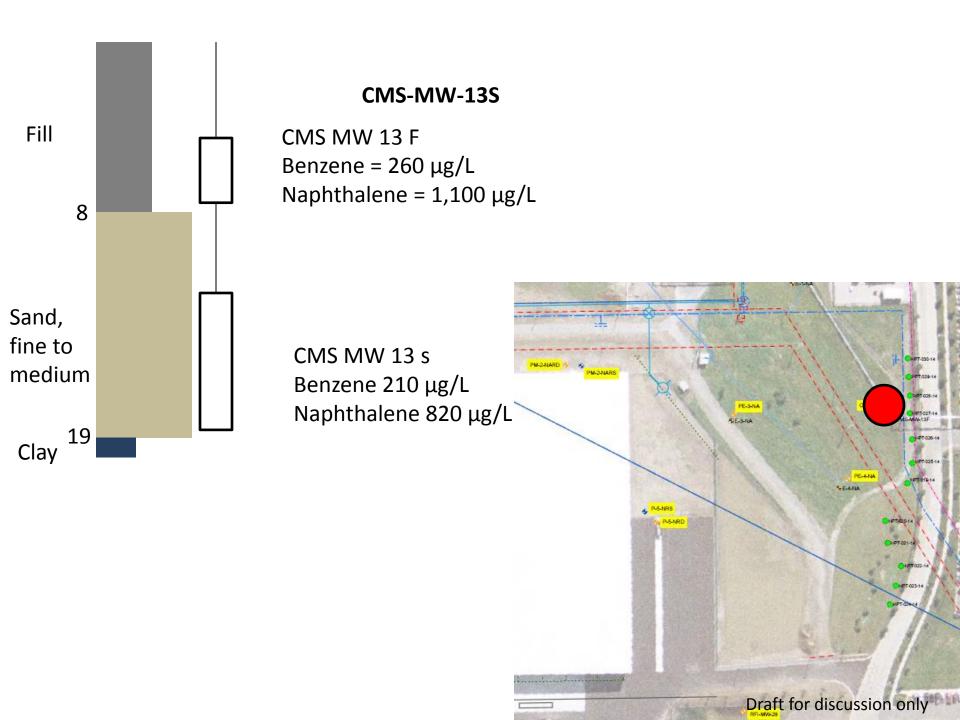


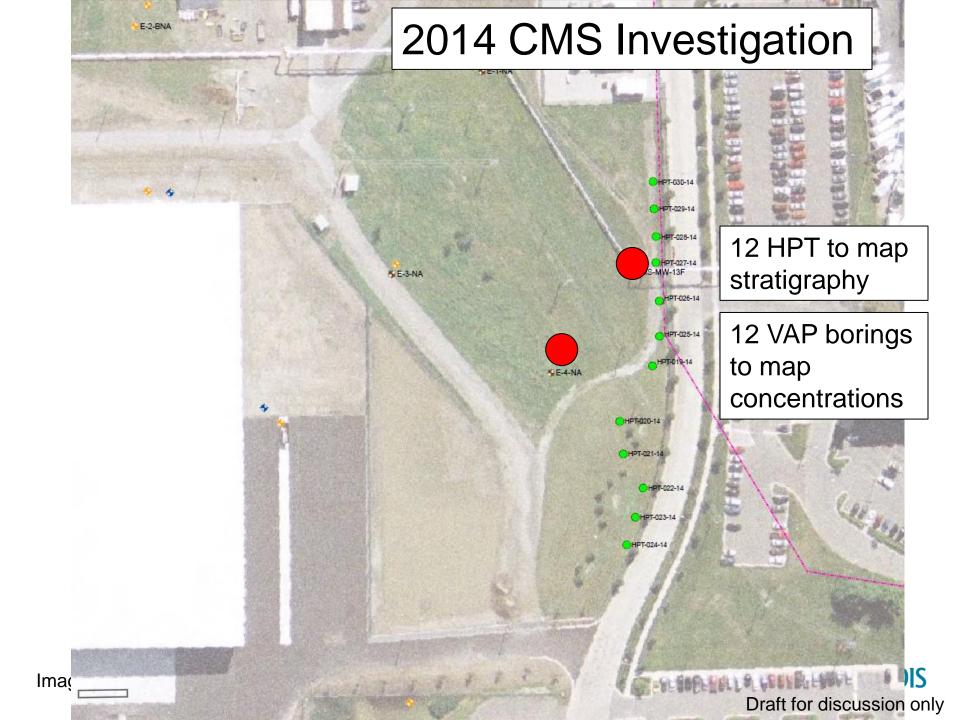


PE-4-NA









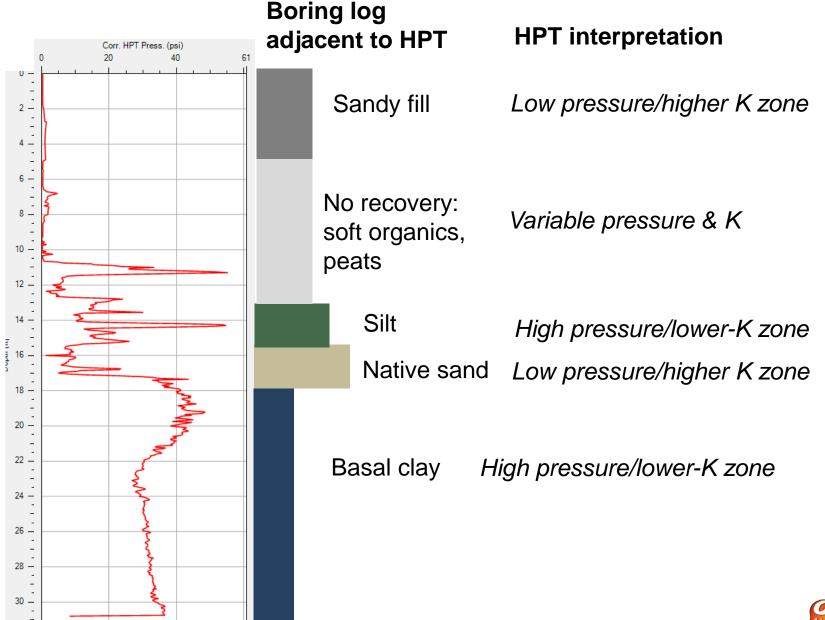
Results

Soil types, HPT, and cross section

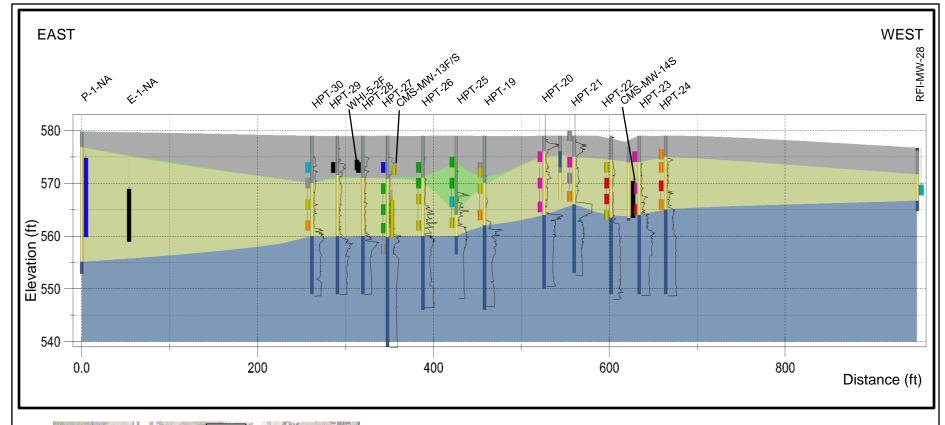
- Analytical results
 - Benzene, naphthalene

CH₄ results

HPT Example Interpretation

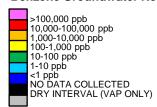




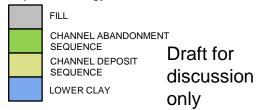




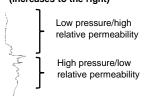
Benzene Groundwater Result



Upland Geology



HPT Pressure (psi) (increases to the right)

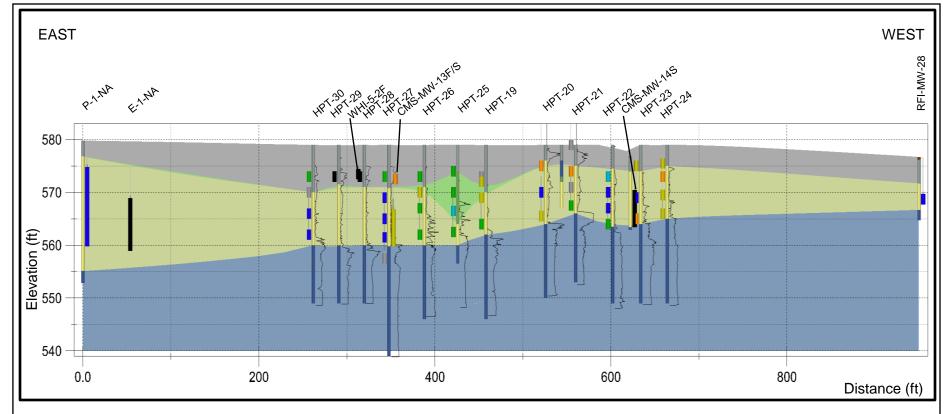


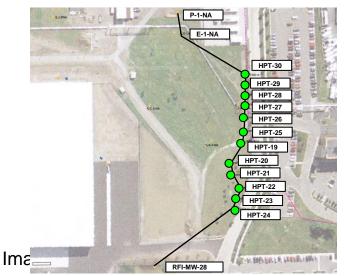
BASF NW WYANDOTTE, MI

SOUTHERN BOUNDARY AREA UPLANDS GEOLOGY AND BENZENE IN GROUNDWATER

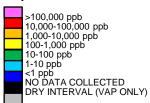


FIGURE 7

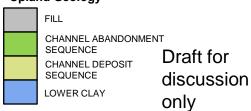




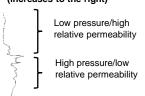




Upland Geology



HPT Pressure (psi) (increases to the right)



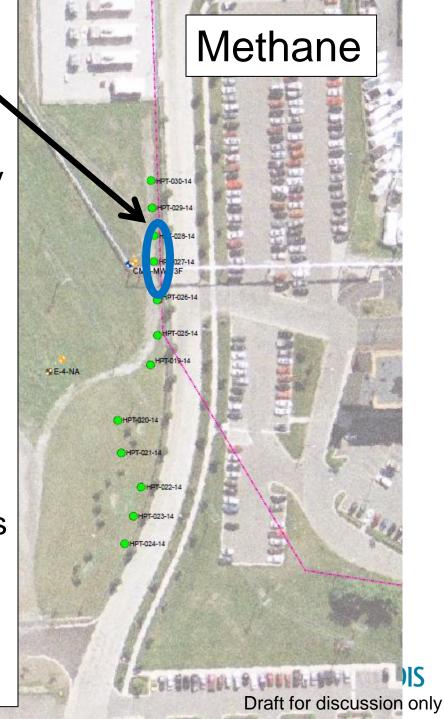
BASF NW WYANDOTTE, MI

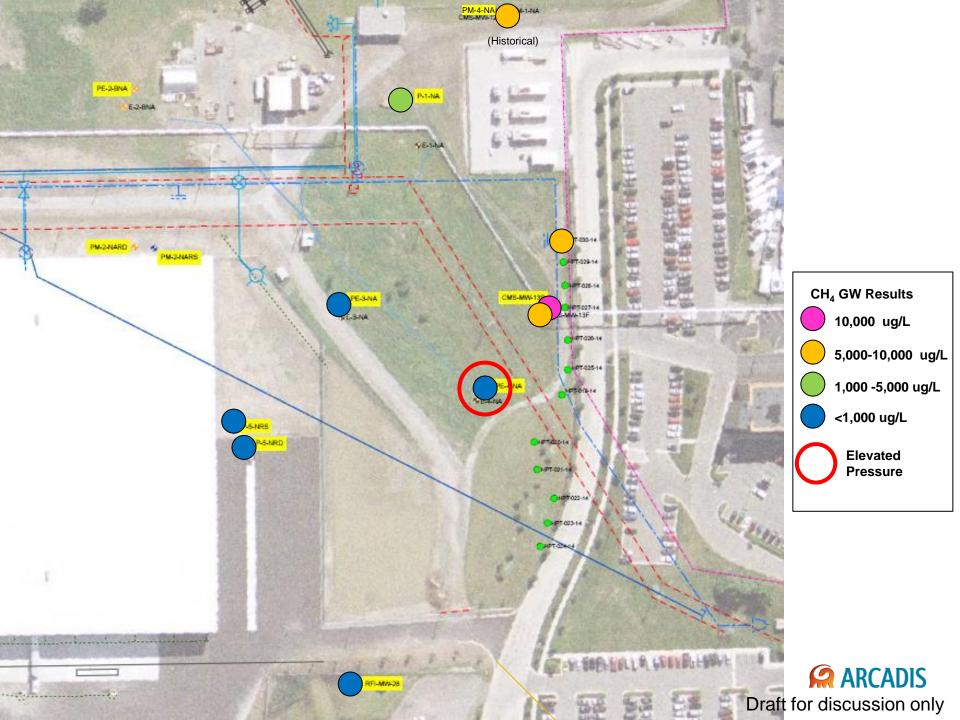
SOUTHERN BOUNDARY AREA UPLANDS GEOLOGY AND NAPHTHALENE IN GROUNDWATER

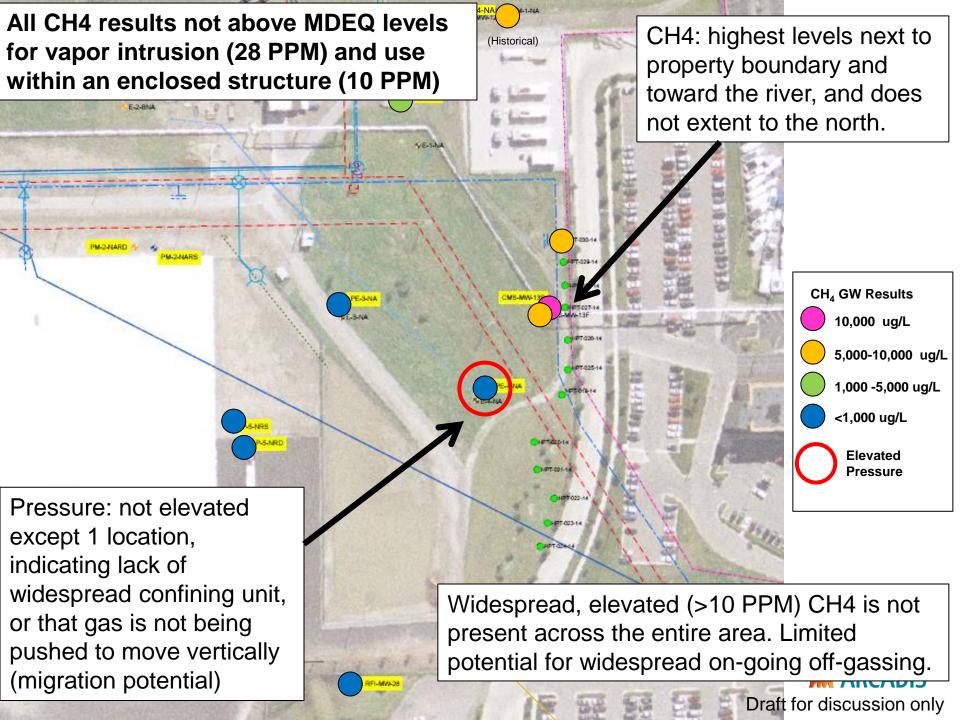


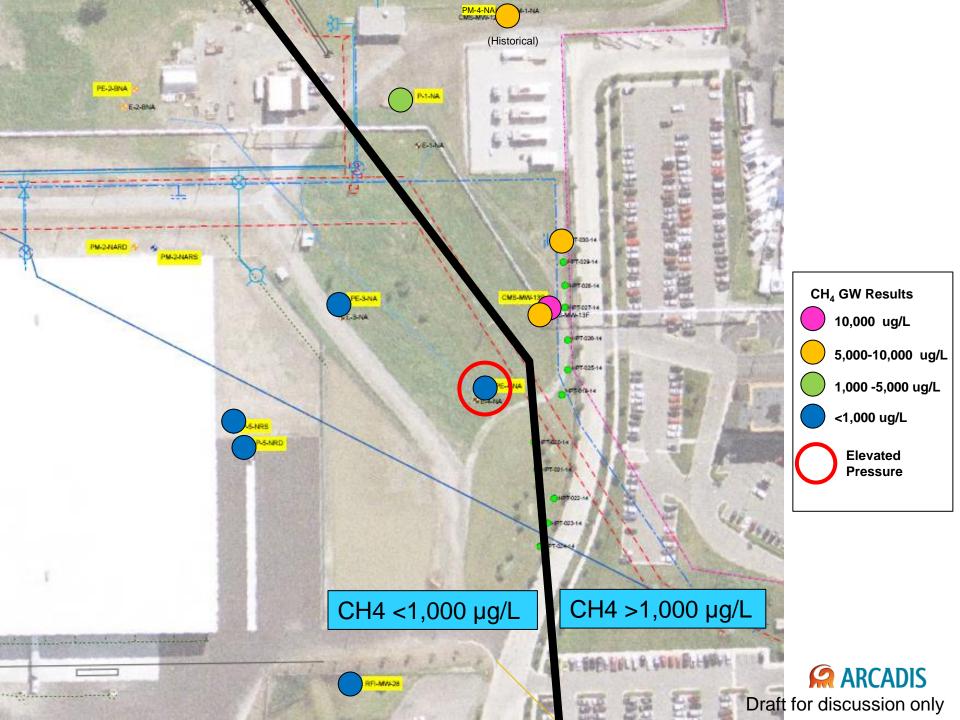
FIGURE 8

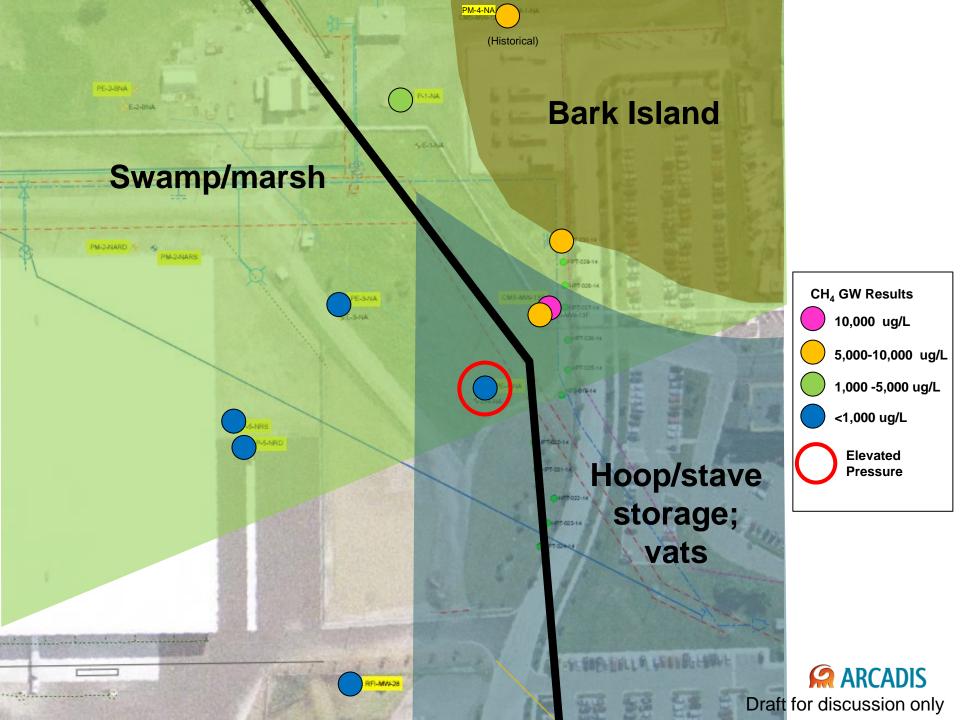
- Dissolved gases identified during GW sampling
- Based on historical use in the 1800s, methane was potentially present
- Additional sampling event conducted at wells in the vicinity for dissolved methane to evaluate it as a health and safety issue for our field staff
- Results not above MDEQ levels for vapor intrusion (28 PPM) and use within an enclosed structure (10 PPM)







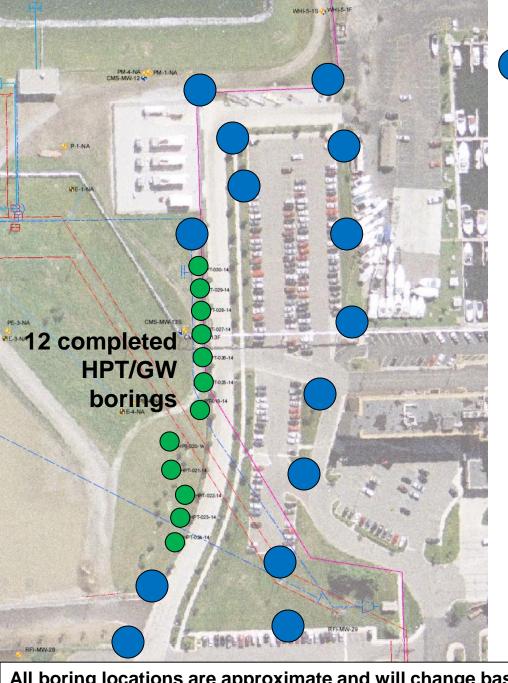




Conceptual site model (CSM) updates:

Pre-Investigation	Post-Investigation
VOCs > FAV near property boundary	VOCs > FAV at property boundary
Benzene > 50 PPM present at single location	Benzene at 10s-100s PPM present across >100' section at property boundary
Some organic material present due to naturally occurring peat layer	"Significant" organic material present due to both peat layer and wood from historical uses in the 1800s

Conclusion: Off-site investigation needed



- 14 potential borings At each:
 - HPT to identify permeable soils
 - Groundwater sampling from permeable soils
 - Analysis of groundwater samples for VOCs
 - Four to six locations will be converted to 2-inch monitoring wells

All boring locations are approximate and will change based on field conditions, utilities, access, etc.



Next Steps

- Schedule
 - Access agreements in progress
 - Updated work plan
 - Field work